

Quantum Mechanics and Path Integrals

Richard P. Feynman

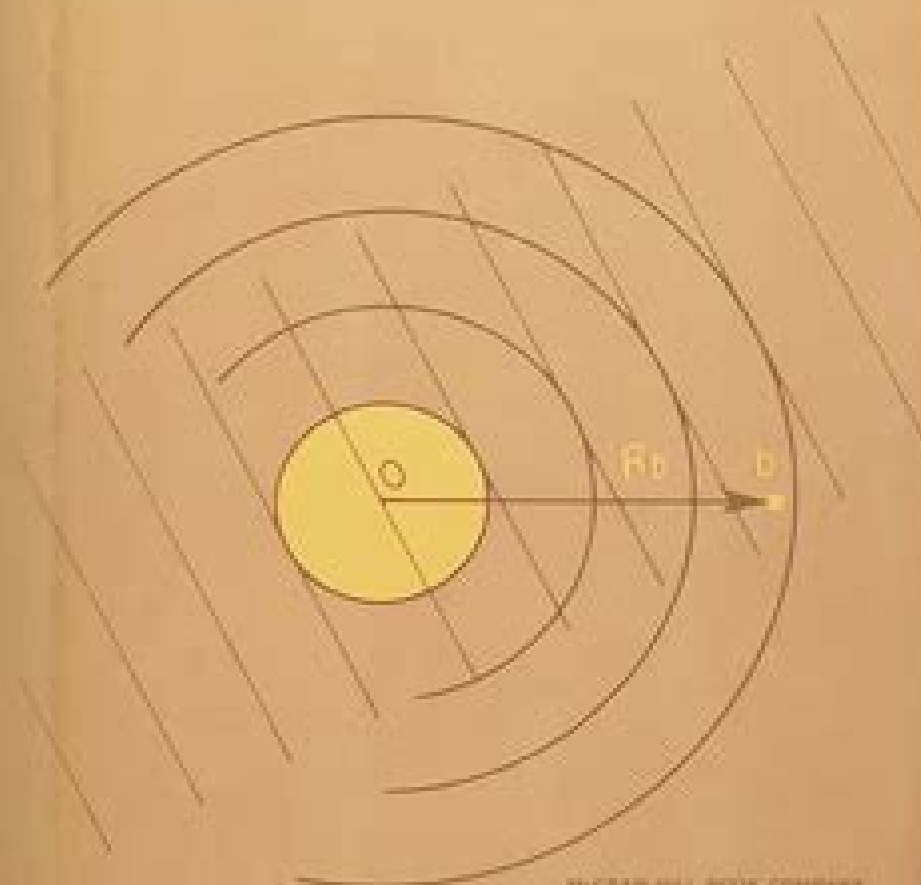
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Quantum Mechanics And Path Integrals

Richard Phillips Feynman



Quantum Mechanics And Path Integrals:

Quantum Mechanics and Path Integrals Richard P. Feynman, Albert R. Hibbs, Daniel F. Styer, 2010-07-21 Looks at quantum mechanics covering such topics as perturbation method statistical mechanics path integrals and quantum electrodynamics

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert, 2009 This is the fifth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have been made possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman's time sliced formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a new nonholonomic mapping principle carrying physical laws in flat spacetime to spacetimes with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative coordinate independent definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely products of distributions The powerful Feynman-Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent results The convergence is uniform from weak to strong couplings opening a way to precise evaluations of analytically unsolvable path integrals in the strong coupling regime where they describe critical phenomena Tunneling processes are treated in detail with applications to the lifetimes of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A variational treatment extends the range of validity to small barriers A corresponding extension of the large order perturbation theory now also applies to small orders Special attention is devoted to path integrals with topological restrictions needed to understand the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern-Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black-Scholes formula for option prices are developed which account for the fact recently experienced in the world markets that large fluctuations occur much more frequently than in Gaussian distributions

Path Integrals in Quantum Mechanics, Statistics, and Polymer Physics Hagen Kleinert, 1990-01-01

Quantum Mechanics and Path Integrals [by] R. P. Feynman [and] A. R. Hibbs Richard Phillips Feynman, A. R. Hibbs, 1965

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen

Kleinert, 2004-03-05 This is the third significantly expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial

quantum mechanical systems in particular the hydrogen atom The solutions have become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman's famous formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a simple quantum equivalence principle governing the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions The powerful Feynman-Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern-Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black-Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions The author's other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions

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typical singular potential as well as the investigation of the large order behavior of the perturbation series On the path integral side after introduction of the basic ideas the expansion around classical configurations in Euclidean time such as instantons is considered and the method is applied in particular to anharmonic oscillator and periodic potentials Numerous other aspects are treated on the way thus providing the reader an instructive overview over diverse quantum mechanical phenomena e g many other potentials Green s functions comparison with WKB calculation of lifetimes and sojourn times derivation of generating functions the Coulomb problem in various coordinates etc All calculations are given in detail so that the reader can follow every step

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Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions

Path Integrals in Quantum Mechanics Jean Zinn-Justin, 2005 The main goal of this book is to familiarize the reader with a tool the path integral that not only offers an alternative point of view on quantum mechanics but more importantly under a generalized form has also become the key to a deeper understanding of quantum field theory and its applications extending from particle physics to phase transitions or properties of quantum gases Path integrals are mathematical objects that can be considered as generalizations to an infinite number of variables represented by paths of usual integrals They share the algebraic properties of usual integrals but have new properties from the viewpoint of analysis They are powerful tools for the study of quantum mechanics since they emphasize very explicitly the correspondence between classical and quantum mechanics Physical quantities are expressed as averages over all possible paths but in the semi classical limit the leading contributions come from paths close to classical paths Thus path integrals lead to an intuitive understanding of physical quantities in the semi classical limit as well as simple calculations of such quantities This observation can be illustrated with scattering processes spectral properties or barrier penetration effects Even though the formulation of quantum mechanics based on path integrals seems mathematically more complicated than the usual formulation based on partial differential equations the path integral formulations well adapted to systems with many degrees of freedom where a formalism of Schrodinger type is much less useful It allows simple construction of a many body theory both for bosons and fermions

Path Integrals in Physics M Chaichian, A Demichev, 2018-10-03 Path Integrals in Physics Volume I Stochastic Processes and Quantum Mechanics presents the fundamentals of path integrals both the Wiener and Feynman type and their many applications in physics Accessible to a broad community of theoretical physicists the book deals with systems possessing a infinite number of degrees in freedom It discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them It describes in detail various applications including systems with Grassmann variables Each chapter is self contained and can be considered as an independent textbook The book provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers

Mathematical Feynman Path Integrals and Their Applications Sonia Mazzucchi, 2009 Although more than 60 years have passed since their first appearance Feynman path integrals have yet to lose their fascination and luster They are not only a formidable instrument of theoretical physics but also a mathematical challenge in fact several mathematicians in the last 40 years have devoted their efforts to the rigorous mathematical definition of Feynman s ideas This volume provides a detailed self contained description of the mathematical difficulties as well as the possible techniques used to solve these difficulties In particular it gives a complete overview of the mathematical realization of Feynman path integrals in terms of well defined functional integrals that is the

infinite dimensional oscillatory integrals It contains the traditional results on the topic as well as the more recent developments obtained by the author Mathematical Feynman Path Integrals and Their Applications is devoted to both mathematicians and physicists graduate students and researchers who are interested in the problem of mathematical foundations of Feynman path integrals Feynman Path Integrals in Quantum Mechanics and Statistical Physics Lukong Cornelius Fai,2021-04-15 This book provides an ideal introduction to the use of Feynman path integrals in the fields of quantum mechanics and statistical physics It is written for graduate students and researchers in physics mathematical physics applied mathematics as well as chemistry The material is presented in an accessible manner for readers with little knowledge of quantum mechanics and no prior exposure to path integrals It begins with elementary concepts and a review of quantum mechanics that gradually builds the framework for the Feynman path integrals and how they are applied to problems in quantum mechanics and statistical physics Problem sets throughout the book allow readers to test their understanding and reinforce the explanations of the theory in real situations Features Comprehensive and rigorous yet presents an easy to understand approach Applicable to a wide range of disciplines Accessible to those with little or basic mathematical understanding *Field Theory* Ashok Das,2019 This unique book describes quantum field theory completely within the context of path integrals With its utility in a variety of fields in physics the subject matter is primarily developed within the context of quantum mechanics before going into specialized areas All the existing chapters of the previous edition have been expanded for more clarity The chapter on anomalies and the Schwinger model has been completely rewritten for better logical clarity Two new chapters have been added at the request of students and faculty worldwide The first describes Schwinger's proper time method with simple examples both at zero and at finite temperature while the second develops the idea of zeta function regularization with simple examples This latest edition is a comprehensive and much expanded version of the original text *Techniques and Applications of Path Integration* L. S. Schulman,2012-10-10 Suitable for advanced undergraduates and graduate students this text develops the techniques of path integration and deals with applications covering a host of illustrative examples 26 figures 1981 edition **Path Integrals in Physics** M Chaichian,A Demichev,2001-07-01 The path integral approach has proved extremely useful for the understanding of the most complex problems in quantum field theory cosmology and condensed matter physics Path Integrals in Physics Volume II Quantum Field Theory Statistical Physics and other Modern Applications covers the fundamentals of path integrals both the Wiener and Feynman types and their many applications in physics The book deals with systems that have an infinite number of degrees of freedom It discusses the general physical background and concepts of the path integral approach used followed by a detailed presentation of the most typical and important applications as well as problems with either their solutions or hints how to solve them Each chapter is self contained and can be considered as an independent textbook It provides a comprehensive detailed and systematic account of the subject suitable for both students and experienced researchers

Classical and Quantum Dynamics Walter Dittrich, Martin Reuter, 2012-12-06 Graduate students who want to become familiar with advanced computational strategies in classical and quantum dynamics will find here both the fundamentals of a standard course and a detailed treatment of the time dependent oscillator Chern Simons mechanics the Maslov anomaly and the Berry phase together with many worked examples throughout the text This second edition has been enlarged by a new chapter on topological phases in planar electrodynamics and a discussion of the Aharonov Bohm effect

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